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ABSTRACT

The problem under investigation is the testing of the value of the student teacher-cooperating teacher relationship in promoting student teacher behavioral gains and the values of careful selection of cooperating teachers. The procedure used for the sorting on the vajor independent variable - cooperating teacher effectiveness -- was to interview the student teacher at the beginning, middle, and end of his student teaching experience. The sample consisted of 50 student teachers from the University of Utah, with cooperating teachers from the Salt Lake City metropolitan area. Statistical analysis consisted of one-way analysis of variance, a few t tests, several factor analyses, and a correlation analysis. The data did not provide safficient evidence to conclude that careful selection of cooperating teachers definitely pays dividends. Considering the severe limitations of the sample, the dissonant nature of the literature, and the methodology used in this study, further remearch is indicated, preferably conducted with random Assignment to groups combined with pre- and post-testing. (BBH)

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Some Relationships Between Student Teachers'
Perceptions of Cooperating Teachers and
Changes in Student Teachers

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there is one component which has escaped severe stricture. Knowledgeable persons and agencies regard this component, the student teaching or intern experience, as the most vital aspect of the reacher's preparation. The assertion comes from educators and from academicians as well. (9) Even James Conant, who has left little in reacher education unscathed, credits student teaching as the "one indisputable essential element in professional education." (4)

Although empirical support of the importance of student teaching has lagged behind the claims, there is some "soft" evidence. Questionnaire retearch has shown that teacher education graduates view student teaching as the best single factor in their preparation to teach. (14) Cooperating teachers have listed as their number one recommendation for teacher education programs: "more time in student teaching." (16:1:2) Brim, (2) reporting on the specific question of changing attitudes toward children, disclosed that sinety-five percent of teacher graduates cited laboratory experiences as a create the specific research for changing attitudes toward children."

And if it is evenued that this practical experience truly makes a difference, what are the manipulative factors that can optimize positive sharpers it sharpers teaching behaviors and attitudes? Previous research has fait according to class from conserving teacher, more than the university that the person conserving teacher, more than the university that the person who had the greatest influence on the student

has experied the nature and extent of the influence



that this person may exert through development of a close working relationship with the student teacher. The 1963 Association for Student Teaching Yearbook articulated the presumed importance of the rapport:

The attitudes this teacher (the cooperating teacher) holds, the kind of receptivity he creates, the feeling he has about sharing and cooperating with this beginner will all go into establishing a climate for the student teacher . . . thus, positively or negatively, the supervising teacher escablishes an atmosphere for the student teacher. (1:129)

Sorenson and Halpert (13) in a study of discomfort of student teachers during their assignment, similary concluded that "whether the apprehension which most prospective teachers experience in the early stages of practice teaching is quickly over one or whether it persists will be determined in part by the relatiouship between candidate and supervising (cooperating) teacher."(13:32)

This finding is consistent with that of Curtis and Andrews, between that when a team relationship between cooperating teacher and student teacher is carefully promoted, the distance between them will lessen rapidly and emotional tensions will evaporate. Goodlad, because of opinion does exist on the extent to which the cooperating teacher significantly molds the attitudes and methods of the student teacher.

Contemporary writers have logically inferred from these bits of avidence that atudent teachers be placed only in the most outstanding schools and only with the most able cooperating teachers. (3,5) They have rited syldence such as that provided by Price (12) who discovered that attimedical standard teachers changed considerably after their teaching exper-



held by the classroom teacher with whom they worked. They have also cited Stoller, (10) who concluded that neither the method of supervision nor the particular supervisor has as differential an impact on the student teacher as does the combination of cooperating teacher and cooperating class. Similarly, Lipscomb. (10) explicitly stated that the superior cooperating teachers show significantly greater influence on student teachers' attitudes than do below average cooperating teachers.

Hence, in reviewing the available research and commentaries, one is left with the distinct impression that: (1) student teaching is vital; (2) classroom cooperating te_chars are the persons most likely to change 也也可能多少的大學的影響的一直的語彙語的。對於學院的學學學院的學問的學問的可以可能 student teacher behaviors, presuming that they can establish a close "虚伪"的 医皮肤 医皮肤 医皮肤 。 1. 数可能的表示。 2. 数可能的表示。 working relationship with the student teacher; and, (3) for that reason, only 网络蒙 suitable models should serve as cooperating teachers. The problem under হারে সংক্রমের বিভাগের জন্মের বিভাগের হারির বিভাগের বিভাগির হারির হারির বিভাগির হারির বিভাগির হারির বিভাগির হারির হারির বিভাগির হারির হারির হারির বিভাগির হারির হারির হারির বিভাগির হারির হারির · "我们,也在联系。"孙俊就认识。 invescigation in this paper is the testing of the value of the student teacher-cooperating teacher relationship in promoting student teacher be avioral gains and the value of careful selection of cooperating teachers.

Problems and Delimitations

Defortunately, it is probably necessary that these two--development of respont and excellence as a cooperating teacher—go hand and hand. That is, the literature implies that repport is of little use, in fact, may even be detrimental if the cooperating teacher is not a suitable model. Since experimentally, the problem is clouded by the need to identify become thing teacher who are both suitable models and who can establish close

A secretaries chose working relationships, it would be studied burner is the best judge since he is a secretarial and them it is his behavior, hopefully,



that is affected. But in selecting suitable models the issue is more confusing.

The problem becomes defining suitable models and selecting them.

Whether one chooses to accept the "most able" term of Brink and Curtis

and Andrews or Lipscomb's "superior cooperating teacher," the issues

remains. What is a suitable model? To be sure, researchers have composed

lengthly lists of traits of "good teachers" but there remains a near

total lack of consensus among educators as to the validity of any list.

assume that they are the best judges and a Director of Student Teaching would probably begin with their opinions. It is true that these individuals probably have the broadest view of available cooperating teachers. At the same time the depth of their knowledge about individual teachers is most likely superficial.

There are at least two additional problems that arise if cooperating teachers are to be selected in this manner. First, university faculty sembers are external judges; that is, they can only think they know who and what is best for a student teacher. Second there is the usual question of milishility. A consensus among university faculty members can be difficult to reach on such matters. On the other hand, who else has the proper context on which to been such judgments? Who else has observed cooperating teachers to any extent? (And from a political point of view, others teachers selection of cooperating teachers may be difficult at best.)

The company it may be successfully argued that external judges

| Vis study, assess, the problems involved in synthesizing
| Company | C



teacher-cooperating teacher rapport correlated at .18. Hence, since a single judge appeared to be the feasible approach and since the efficacy of student teacher judgments in identifying close working relationships appeared obvious, external observers were not used.

The additional reasons for selecting student teachers rather than external persons have to do with perceptions. Student teachers are the persons affected by the cooperating teachers and it is their perception of whether or not a cooperating teacher is effective that is going to THE STREET SARRY THESE bear upon the student teacher's beht for and attitudes. It matters little 鐵作電子門外外 化氯烷烷 what others think of the cooperating teacher; the student teacher is the 。 1946年,在1966年,1966年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年,1967年 concerned individual. It is his perceptions of a cooperating teacher to will affect him, regardless of the good intentions of the cooperating GARNATA ANGSALA DA The theoretical basis of the importance of perceptions comes 발로만난 문학자의 학원을 가다. 数据行程数 医上皮性成为 日本 可能说。 most directly from the related area of educational supervision. Griffiths summarizes the research thusly: (8:52-56)

It is not open to debate . . . This perceptual difference is the fundamental cause of human relations problems. Reality is to us what we perceive it to be and we will base our outlons . . on what we perceive to be the case.

Another problem to overcome because the student teacher is the only judge and, therefore, reliability is unity. To be sure, the student teacher does not have a frame of reference for making judgments; he has early his jerceptions of the cooperating teacher. Nevertheless he is probably that best judge since i. is his experience that is affected.

There is a prolonged and in-depth contact with the cooperating teacher. Because would be forced to make judgments on the basis of

g, the precedure used for the sorting on the major independent

student teaching at the beginning, in the middle, and at the end of his student teaching experience. This procedure usually established consistent ratings but in a few cases where student perceptions changed over time an average rating was taken. This involved no more than three or four of the fifty subjects.

The specific questions asked in the interview were: "Indicate on a scale of one to nine how you would rate your cooperating teacher IN COMPARISON TO WHAT YOU KNOW OR ASSUME TO BE THE RELATIONSHIP OF OTHER STUDENT TEACHERS WITH THEIR COOPERATING TEACHERS."

There are several conclusions which can be made about the criteria **或量多数的 "你一个都没有的事的你**说 The data for these upon which student teachers made their ratings. generalizations comes from an interview at the end of the quarter in which the student teachers were asked to comment at length about their cooperating teachers. High group, cooperating teachers were characteristically described as warm and friendly individuals. They were typically 49.84.15年3月 well liked by their students and demonstrated an interest both in them and in the student teacher. They might or might not have allowed the student teacher total freedom in choosing what and how to teach, nor was there any continue delayior in terms of giving student teachers constructive criticism sed reall wat. Some student teachers felt they received enough feedback; others did not. Some wanted total freedom; others would have liked more Midmon But ir no way did this seem to affect the student teacher's teting of their cooperating teacher.

Allows in the law category, as a group, were also inconter Allows Specifics and gave feedback although more



authoritarian. But the clear behavior pattern as perceived by the student teachers was that they were not well-liked by their students, did not like teaching, did not like their students, and most important, they were not interested in their student teachers. They lacked human warmth and concern.

Sorting in this manner would appear, however, to lead to a major difficulty through a biasing of the data. One would suspect that the 的特殊學的自然的第三人称形式 医野鸡种毒素 医神经神经 opinions of student teachers toward cooperating teachers would in some way reflect the capabilities and performances of the student teachers The safety and the second of t themselves. Specifically, one would expect that a student teacher might talik filosofik (ili a samen a karan ili ili ili karan k assess a cooperating teacher as "unsuitable" if they had had an unpicasant experience during the quarter, but an experience that might well be due more to their own ineptitude than to any fault of the cooperating teacher. 网络克克克德克斯克克德克 网络马克德塞尔德斯克克德克德 化氯化甲基甲基酚二甲基酚二甲基 There was some evidence that such a biasing did not occur.

Population and Methodology

The sample consisted of fifty, randomly selected and assigned (assignment to groups on the basis of the independent variable was, of course, soft sameon at all) secondary applicants to winter quarter, 1969, student teaching at the University of Utah. Cooperating teachers were drawn from a pool of over one thousand teachers in the Sait Lake City Metropolitan Area. Student teacher perceptions of cooperating teachers divided raturally and meatly anto three categories which were labeled for ease of identification:

The student teachers who assigned a rating of either eight or nine their student teachers who assigned a rating of either eight or nine their cooperating teachers; middle—those student teachers. See their security is teachers seven on the scale; and, teachers to seven their cooperating teachers below seven.

Although the attempt was to force discriminations, (the instructions 马、胡桃花园的 对一致一致一致感情感到人们心思的自己的意思。 asked on the student teacher to rate his cooperating teacher on a compara-tive basis), forty-five of the student teacher participants rated their ti kana tahuna disampa di matang tahun cooperating teachers above five and twenty-nine rated their cooperating WAR GRADER NO. teachers either eight or nine. The mean rating was 7.7. This implies a general satisfaction with the quality of cooperating teachers but (1985年10年) (1985年) (1986年) (1985年) (1986年) (1986年) (1986年) (1986年) (1986年) (1986年) (1986年) (1986年) (1986年) (19 probably reflects to a greater degree, satisfaction with the overall student way no sugar sa Tili (Shi teacher experience.

Dependent variables considered were: the Minnesota Teachers' Attitude
Inventory, Time Budget Analysis, Flander's Technique of Interaction
Analysis, and post hoc ratings by cooperating teachers, university supervisors,
and the student teachers themselves. The rating sheets were factor
analyzed to reduce the number of variables for ease of interpretation.

Presentation of Data

statistical enalysis consisted of both one way analysis of variance among the three groups and a few simple t tests contrasting the two extreme groups. There were also several factor analyses and a correlation analysis. Assumptions for the ANOVA are independence within and between attomps, normality of average, and equal variances. The same assumptions hold for the t tests with the ratio of variances <2:1. The t tests were as your facto improvisations which were conducted on a few dependent variables in cases where the pattern is mean scores appeared unusual. A appropriation entries was also developed for all variables.

The leading while we recess and standard deviations for the three was an attack to the control of their paperating grander and change in stitude. Observed

inverse relationship to the perceived "quality" of the cooperating teacher. This would appear to be in conflict with the suggestions of the literature which argued for selection of only the 'best" cooperating teachers. Although the F. value is slightly below the rejection region (see Table 2), the t values of 2.00 suggests rejection of the null hypothesis for a two tailed t test at the .05 level. (The t test contrasted means of extreme groups).

Insert Table 1 approximately here

MTAI pre and post test means are not significantly different as is shown in Table 2. This observation indicates that ratings of cooperating teachers a not necessarily related to student teacher MTAI scores and that at least see far as MTAI scores are concerned the sample is not biased after all.

Insert Table 2 approximately here

The finite budget analysis revealed that those assessed as the better conservating teachers spant more time with their student teachers than did the secondary conjugating teachers (one Table 2). By the end of the quarter, the stiffetimes had been reduced to a value which was not significantly make the three project.

Inche Table 3 approximately here



TABLE 1

MANS AND STANDARD DEVIATION FOR THE MTAI PRE TEST, POST TEST, AND CHANGE IN MTAI SCORES AS A FUNCTION OF STUDENT TEACHER RATING OF THEIR COOPERATING TEACHERS

GROUPS OF CCOPERATING TEACUERS ACCORDING TO CHANGE IN STULEIT TEACHER RATINGS PRE-MTAI POST-MTAI MTAI SCORE 42.2 X 60.8 18.6 LON S.D. 22.1 24.2 19.1 X 46.1 6.5 52.6 MIDDLE 3.D 19.6 29.1 21.4 · X 56.3 ິ 56.1 🐣 .3 HIGH S.D 28.3 36.8 22.3

TABLE 2
THE COMPLETE ANOVA TABLE FOR ALL VARIABLES

VARIABLE	P(2, 47)	MEAN SQ.	P LESS THAN
MTAI PRE	1.383	898.101	.261
MTAI POST MTAI CHANGE	.162 2.295	172.680 1159.125	.112
TIME BUDGET ANALYSIS TRIAL 1 TIME BUDGET ANALYSIS TRIAL 2	4.075 3.299	1954.360 1254.722	.023 .046
TIME BUDGET ANALYSIS TRIAL 3	1.322	642,077 1314,508	.310
DIRECT INFLUENCE INDIRECT INFLUENCE STUDENT TALK	2.653 1.908	6786.507 2340.637	.160
FACTOR 1	,237 1,480	5.003 31.903	.790 .238
PACTOR 1 FACTOR 2 FACTOR 3	6.599 20.794 4.219	103.438 292.954 77.308	.003 .001
PACTOR 2	.420 1.252	9.529 25.915	.660

CHARLATTRO TEACHER

THE STATE OF THE S

(FACTOR 1 Assessment

Patrice 1

Marie, 1

ACTOR 2

Assessment of Student Teacher Change in Student Teacher

Change in Student Teachet

Evaluation of Experience and Desire to Teach at the End of the Quarter Evaluation of Cooperating Teacher

Evaluation of Cooperating Teacher Desire to Teach at the Beginning

Assessment of Cooperating Teacher-Student Teacher Relationship Assessment of Change in Student Teacher,

Desire to Teach, and Rating of Student Teacher

TABLE 3

MEANS AND STANDARD DEVIATION FOR THE

AS A FUNCTION OF STUDENT TEACHER RATING OF THEIR COOPERATING TEACHERS

GROUPS OF COOPERATING
TRACHERS ACCORDING TO

UDENT TEACH		TIME 1	TIME 2	TIME 3
LON	T	13.556	8.889	17.222
	8.D	9.275	9.880	18.040
MIDDLE	X	34.500	23,167	32.417
	8.D	18.451	17.424	32.140
IIICH	¥.D	37,172 25,431	28.000 22.165	28.724 19.946

F values are 4.075, 3.290, and 1.202 respectively. See Table 2 for probability values.

Figures are time in minutes spent by the student teacher with his cooperating teacher.

The interaction analysis findings would appear to be mixed except that the only significant t value occurred in the case of the indirect influence where student teacher behavior followed the theory of the literature review. That is, student teachers in the "low" group exhibited less indirect influence than student teachers in the "high" group.

Insert Table 4 approximately here

At the end of the quarter, a rating scheme was administered to cooperating teachers, student teachers, and university supervisors. The instruments, of about fifteen items each, were factor analyzed in order to redure the number of variables for meaningful interpretation. Factor loadings were unusually high, being in the range of .88 to .98. Table 2 shows that neither the cooperating teacher nor university supervisor essessments, as a function of the sorting on the independent variables, were significently different.

Insert Table 5 approximately here

Perhaps the most interesting aspect of the data relating to these three retings schemes was observed in the correlation matrix; the ratings of the property supervisors were correlated why subjectly with retings by the corperating teacher (r= .068).

The correlation was likewise small with the highest positive correlation was likewise small with the highest positive correlation



TABLE 4

MEANS AND STANDARD DEVIATION FOR THE INTERACTION ANALYSIS, TRIAL 3,

AS A FUNCTION OF STUDENT TEACHER RATING OF THEIR COCPERATING TEACHERS

TEACHERS ACCORDING TO	DIRECT	Indirect	STUDENT
STUDENT TEACHER RATINGS	INFLUENCE	Influence	TALK
LOW X	92.222	87.111	104.889
8.D	25.263	28.260	24.333
MIDILS X	75.000	127.333	81.667
8.D	20.538	40.060	29.274
ETCH X	1	130.862 58.610	79.103 3 39.412

The point estimate is a difference of 43.6 tallies.
The confidence interval is 3.9 = 1 < 83.3.



HEANS AND STANDARD DEVIATION FOR THE COOPERATING TEACHER, STUDENT TEACHER, AND UNIVERSITY SUPERVISOR QUESTIONNAIRE AS A FUNCTION OF STUDENT TEACHER RATING OF THEIR COOPERATING TEACHERS

COOPERATING TEACHER QUESTIONNAIRE		STUDENT TEACHER QUESTIONNAIRE		UNIVERSITY SUPERVISOR QUESTIONNAIRE			
GROUPS OF COOPERATING TEACHERS ACCORDING TO STUDENT TEACHER RATINGS	actor 1 Assessment of Student Toacher)	Sactor 2 (Change in Student Teacher)	(Evaluation of Experience and Desire to Teach at the End of the Quarter)	Eactor 2 (Evaluation of Cooperating Teacher)	Factor 37 (Desire to Teach at Beginning of Quarter)	Factor 1 (Assessment of Student Teacher-Cooperating Teacher Relationship)	Factor 2 (Assessment of .Student Teacher)
LON X S.D.	50.037 3.039 51.377	48.452 4.373 51.833	46.394 4.871 49.702	43.627 5.447 49.330	45.669 3.873 3.877 50.777	48.5.8 5.533 49.777	48.543 5.502 49.442
MIDDLE S.D.	4.950 51.054 4.819	4.962 51.025 4.578	2.584 51.601 4.112	3.218 52.748 3.332	5.211 49.883 3.976	4.725 50.203 4.539	3.685 51.036 4.557

等等。1995年中国共和国的特殊中国中国共和国的国际共和国的主义的主义。 *On this factor the high score represents a poor desire. Factor scores have been standardized with a mean of 50.0 and a standard deviation of 5.0.

In summary, MTAI findings favored students who gave their cooperating teachers low ratings while interaction analysis findings favored the high group. The remainder of the instruments favored neither group in any clear fashion.

Findings and Conclusions

The fact that the data generally fit no set pattern implies a basis for challenging the major hypothesis of the literature. Certainly there is not sufficient evidence to conclude that careful selection of cooperating teachers definitely pays dividends. Depending upon the criterion, one might even argue that it is productive to select only the "poor" cooperating teachers.

Witness, for example, the changes in MTAI scores which are easily 國際國際 化二氯甲甲烷甲基酚 工道 可能含为 不穩 医医克克 the most interesting findings about which to hypothesize. The research 医帕格氏曼皮质的复数过滤性质解酶 重新的 實際 网络克里 done by the late Walter Cook and his associates at the University of 图 福爾 强的名的名词复数地名 Minnesota (6) demonstrated that it is common for student teacher attitudes 注用的数据的特别数 toward teaching and children to remain unchanged or to become more A STATE OF THE PARTY OF THE SERVICE OF negative during the student teaching experience. Cook concluded that somehow the school milieu socializes the student teacher. Student teachers enter the schools full of vigor and enthusiasm; they have not yet learned that their task it "unmanageable." But they are soon confronted with the malities of teaching five or six classes per day, monotoring athletic **《教徒书》《通者为**》》 contracts, belling lanch tickets, and finding out how little their beginning salary will provide.

She might easily argue that the individual having the greatest opportunity to socialize the erudent teacher, the cooperating teacher, is the culprit.

This data support this not on although in no group was there a mean decline



in MTAI scores. Note that the student teachers who assessed their cooper-**"在基础和基础资源的"。**"是不是是 ationg teachers in the bottom group had the greatest positive attitude change. Also remember from the time budget analysis that these individuals spent the least amount of time with their cooperating teachers. Data from the final interview were consistent, with the clearest and most unmis-takable message gained from this source being that these student teachers (in the low group) were so horrified at the inhuman treatment given by cooperating teachers to students that they almost totally rebelled. They sided with the students and, apparently in an attempt to compensate for the behaviors of their cooperating teachers, became more friendly and warm \$\$\$\$、黄本林的产生感到了更多。他特殊的研究所提高。 in their dealing, with students. On the other hard, if we examine the data for the group of student teachers who rated their cooperating teachers high, we are given the clear impression that these student teachers strongly identified with their cooperating teachers. They observed that their cooperating teachers got along well with their students and were generally effective teachers. As such, these cooperating teachers were able to nocialize the student teachers; they were able to convince student teacher that "although teaching is enjoyable there are many, many irritating problems about school and children." The Minnesota Teacher Attitude Inventory, time budget analygie, and the interview data give this distinct impression.

Although the interaction analysis date are more difficult to interpret, there is a consistent emplemation. Student teachers in the "low group" showed less of the desirable indirect behavior. This is probably due to the fact that they were not provided with (teacher) models who demonstrated this kind of behavior. Student machers in the "high group" did have such models and support plants of the models. Hence, this flatter, while these above, would support careful selection of cooperating

teachers.

The questionnaires obtained from the cooperating teachers, the student teachers, and university supervisors at the end of the quarter, provide little information of a directional nature concerning the major 是一、**有**为人的。1976年 **建设设施的** question of this study. However, the fact that neither cooperating 在急度等似。第二人 "安心" teachers nor university supervisors were able to identify superior performances by student teachers in any particular group implies that careful selection neither aids nor detracts from the performances of student teachers; at least these individuals were not able to identify superior behavior changes on the part of student teachers in any group. The low correlations between cooperating teacher and supervisor ratings likewise do not speak well for the reliability of ratings of student teacher performance.

Inferences

Considering the severe limitations of the sample, the dissonant nature 强烈的复数形式 医电影管 经收货的 医骨髓的 医多 of the literature, and the methodology used in this study, further research 400 并对对数据: 数据对数数数数据设计方式 is indicated. It would be ideal if a study such as this could be conducted in the classical fashion with rendom assignment to groups along with pre and post testing. The precise nature of the problem under investigation here did not allow for this design since categorization was on the basis of student teacher perceptions. Yet, to the investigators of this study, the Particular of the total data obtained paint one of the most distinct pictures 经经验的复数形式的 in sur remercia reperience. Seldon have we found such consistency of data 3.54年曾中国安全部,1945年中国中国安全的 from the parious instruments supported by such distinct impressions from the 有基础等 interviews. For our own part, it will take considerable pressure before we will be willing to easend the substantial efforts necessary for the careful

selection of cooperating teachers. Yet we admit that we are not quite ready to advocate selection of the incompetent cooperating teacher.



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